

ABSTRACT OF THE DISCLOSURE

A nonvolatile switch has: an input terminal; an output terminal; a selection terminal; a first and a second biasing terminal; a memory element of flash type, having a first conduction region connected to the first biasing terminal and a second conduction region connected to the second biasing terminal; a pass transistor, having a first conduction region connected to the input terminal and a second conduction region connected to the output terminal; and a common floating gate region and a common control gate region, which are capacitively coupled together. The memory element and the pass transistor share the common-gate regions, and the common control gate region is connected to the selection terminal.